

## Humphrey Theysen Advances to Senior Engineer In Technical - Economics & Planning Division

Effective July 1, 1977, Humphrey R. Theysen was promoted to Senior Engineer in the Technical - Economics & Planning Division.

Humphrey joined Lago in June 1972 after obtaining his B.S. degree in mechanical engineering from the University of South Carolina. At that time he was assigned to the Mechanical Engineering Division as an engineer in the Engineering Technical Services Section. Late 1974 he left for California to study for his master's degree in mechanical engineering at the Stanford University.

When Humphrey returned in 1975, he was assigned to the Cost & Project Engineering Section of Technical - Project Development Division.

He transferred to the Economics & Planning Division in January this year.

A former student of the St. Augustinus College of San Nicolas, Hum-

phrey graduated from the Colegio Arubano with an HBS-B diploma in 1968, and won a Lago scholarship to study mechanical engineering. After working at Lago for two years, he



H. R. Theysen

was granted another scholarship, this time to obtain his master's degree.

(Continued on page 3)



V. Helder

## Vic Helder Ta Bira Senior Engineering Technician Den Mechanical Engineering

Entrante 1 di Juli, 1977, Victor (Vic) Helder di Equipment Inspection Section di Technical - Mechanical Engineering Division a ser promoví pa Senior Engineering Technician. E promocion aki ta en reconocimiento di su contribucionnan den e ramo di inspeccion di equipo.

Vic a join Lago como un aprendiz den Lago Vocational School na 1944. Despues di gradua na 1948 el a ser asigná na Technical - Engineering como Inspector Helper B. El a avanza pa Equipment Inspector Trainee A na 1953 y pa Junior Engineering Assistant A na 1955.

Cu un promocion na 1960 el a bira Engineering Assistant A y cu un otro na 1968, el a avanza pa Senior Engineering Assistant. Na 1971, Vic a ser promoví pa Engineering Technician.

Durante di su trinta y tres anja di servicio cu Lago, Vic a sigi hopi curso patrociná pa compania tanto na Lago como na exterior. E cursonan aki ta inclui Process training, unidatnan selecto di curso di Mechanical Engineering di ICS, Elementonan di Metalurgia, un curso Ultrasonico y Inspeccion di Weldmento (Testmento sin destruccion) na Connecticut, Training di Isotope na Cleveland, Ohio y un curso di Corrosion na San Salvador. Den su propio tempo el a completa un curso avanza di Television y Electrónica Industrial.

Vic ta dedica mayoría di su tempo liber na mantene su coleccion di (Continua na pag. 6)

## LSF Grants to Thirty-Eight Students Provide Opportunity to Obtain a College Degree Abroad

For the 21st consecutive year, the Lago Scholarship Foundation is providing financial assistance to deserving and aspiring students in the Aruban community. A total of thirty-eight young people have been offered the opportunity to study with a Lago scholarship for the school year 1977 — 1978. Of these, twenty-four students have received renewal grants, while fourteen students have been offered an LSF grant to continue a college education abroad.

New scholarships for study in Holland have gone to: Herbert M. C. Beukenboom and Rudolfo M. G. Croes, both VWO graduates who will study Economics; VWO graduate Francisco L. Rombley for Applied Physics; VWO graduate Joan van Heyningen, who will pursue a career in Medicine; and VWO graduate Emanuel Figaroa, who will study mathematics. Those who will study at U.S.A. universities are: Christine A. S.

Kappel (VWO), who will study Economics, Angela C. Kervel (VWO), who will study Medicine, M. Rachel Kelly (HAVO), who will pursue a Business Administration career and MTS graduate Dennis U. Wever, who has chosen Civil Engineering as his field of study. Joyce M. Sint (VWO) will have the opportunity to study Economics in Canada.

College students in the U.S.A. who have received LSF assistance to continue their education, are: Miriam Baiz (Junior), who is studying Physical Education, Earl A. Peterson (Sophomore), studying Mechanical Engineering, Lilian S. Geerman (Sophomore), who is working towards a Business Administration degree and Judith M. Francis (Sophomore), who is studying School Counseling.

Students in the U.S.A., who are already receiving financial aid from Lago and who have deserved renewal (Continued on page 3)

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## Curso di Diez Siman Ta Prepara Ingenieronan Mehó den Technica Usa den Disenjo di Proceso

Diez-cuatro ingeniero di Lago, mayoría di nan ingenieronan químico basta reciente, actualmente ta atendiendo un curso básico di Disenjo di Proceso tur Diahuebs. E curso, cual ta ser duná pa Lee N. Stanley di Technical - Process Technical Services, a cuminsa ariba 23 di Juni 1977 y lo continua tur Diahuebs pa diez siman consecutivo te cu Augustus 25 den klas 2 den Administration Building.

Patrociná pa Process Technical Services Division, e curso a ser oficialmente habrí door di Vice Presidente di Lago, John R. Gibbs, kende a pone énfasis ariba e importancia di e curso aki cual ta yuda Lago bira un compañía mas eficiente y confiable. Presente na e sesion di apertura tabata Rey Farro, Division Superintendent di P.T.S.

E entrenamiento aki ta cubri e técnicanan básico usá den tratamiento cu trabao di disenjo pa proceso di refinera y cu control di unidadnan. Material di referencia usá den e sesionnan ta inclui e Esso Blue

Book, básicamente un tipo di "bijbel" di operacionnan di refinera, y e Esso Design Practices Manual. Durante di e sesionnan di ocho ora, e ingenieronan a recibi lectura tocante di e plantanan di proceso y nan funcionnan, nan equipo y instrumentacion, y e manera mas sigur y eficiente pa traha cu nan, mientras cu durante cada sesion nan mester a solucionar un problema den un area particular di operacion di unidad.

Participantes den e curso di Disenjo Básico di Proceso ta haya huiswerk. Esaki ta mas tanto lezamento di seccionnan for di e Blue Book y e Design Practices Manual pa ser repasá despues den e siguiente sesionnan.

E curso, cual ta ser conduci periódicamente pa ingenieronan nobo durante un periodo di dos siman, e biaha aki a ser duná un biaha pa siman durante diez siman consecutivo pa duna e empleadonan aki mas tempo pa cumpli cu nan obligacionnan regular mas eficazmente.

(Continuá na pag. 6)



Participants in the Basic Process Design Course which began on June 23 are shown here in Classroom 2 of the Administration Building with course instructor Lee N. Stanley (standing, far left) and Ray Farro, who was present at the opening session. They are, from left to right (sitting): Erik R. Bruyn, Robert Arrendell, Trevor L. Connor, Edna L. Farro, Russell H. Dowling and Romulo Hernandez. Standing (next to instructor Stanley), Víctor A. Marval, Fouad Younan, Bernhard A. Kalis, Josy M. Laclé, Ruberd A. Barry, Moises F. Kusmus (next to R. Farro).

## Edgar Diaz, Philip de Souza Complete Course in Welding Engineering in the U.S.A.

From June 13 through the 24th, Edgar Diaz and Philip de Souza of Lago's Mechanical Department attended a Fundamentals of Welding Engineering Course at the Ohio State University. Also attending the course were thirty-eight representatives from various industries in the United States.

The course which was taught by professors of the Ohio State Faculty, covered basic concepts of metallurgy, weld design, modern welding techniques, heat treatment, welding process control and non-destructive inspection with regard to carbon steel, low alloy and high alloy steel, aluminum alloys and nickel alloys.

The course consisted mostly of lectures and a few lab sessions.

Edgar and Philip, who returned with their certificates presented to them at the University, are very impressed by the efficient and well-organized manner that the course was presented by the instructors. Edgar and Philip both agree that the course which taught advanced methods and equipment and latest engineering design requirements has contributed considerably to their knowledge of metallurgy and welding techniques.

Both Edgar and Philip are working as Mechanical Supervisors for special welding jobs, being done in the refining by Lago and contractor employees.



Vice President John R. Gibbs stresses importance of Basic Process Design course for new engineers during opening session in the Administration Building on June 23.



Cristina Kappel



Earl Peterson



M. Rachel Kelly



Dennis U. Wever



Mirlam Balz



Lillian Geerman



Francisco Rombley



Judith Francis



Joyce Sint



Rudolfo Croes



Emanuel Figaroa



Angela Kervel



Joan van Heyningen



Herbert Beukeboom

### Lago Scholarship Grants

(Continued from page 1)

al grants are: Edwina J. Arends (Teacher for Mentally Retarded), Brenda Assang (School Counseling), Gerald J. Bezems (Medical Technology), Patricia M. Bislip (Dietetics Management), Frederic P. Every (Economics), Alberta M. Feliciano (Journalism), Errol C. Francis (Computer Maintenance), Erdwina C. Geerman (Medical Technology), John H. Hassell (Metallurgical Engineering), Loida L. Kock (Hotel Management), Ludmila Martinez (Teacher for Mentally Retarded), Cheryl A. Peterson (Home Economics), Martinus Ras (Criminal Justice), Pieter Sloterdijk (Pre-Medical) and Ricardo R. Wever (Applied Mathematics).

Renewal grants went to the following students in Holland: Carlos V. Bikker (Architecture), Donna L. Bislip (Biology), Randolph Browne (Electrical Engineering), Sonja D. Kappel (Dietetics), Efraim Kelly (Electrical Engineering), Jacintha Peterson (Social Work), Conrado J. Tromp (Economics) and Maarten Van Romondt (Law). Rosendo Bareño, who is stu-

dying at the Antillean HTS in Curaçao received a renewal grant to study Mechanical Engineering.

These are but a few of the hundreds of students who this year have been awarded scholarships on the island, either by the Island Government, the Central Government, the Netherlands Government or the Lago Scholarship Foundation. These privileged young people are being given every opportunity to broaden their scope of knowledge in an educational field suitable to their needs and that of the island. When they return as professionals in the not too distant future, they will be capable, responsible people prepared to serve the community and direct other young people with ambition towards a professional career for the benefit of Aruba.

With the scholarships awarded this year, the Lago Scholarship Foundation has helped over 350 students to become professionals in its 20 years of existence.

### Humphrey Theysen Advances

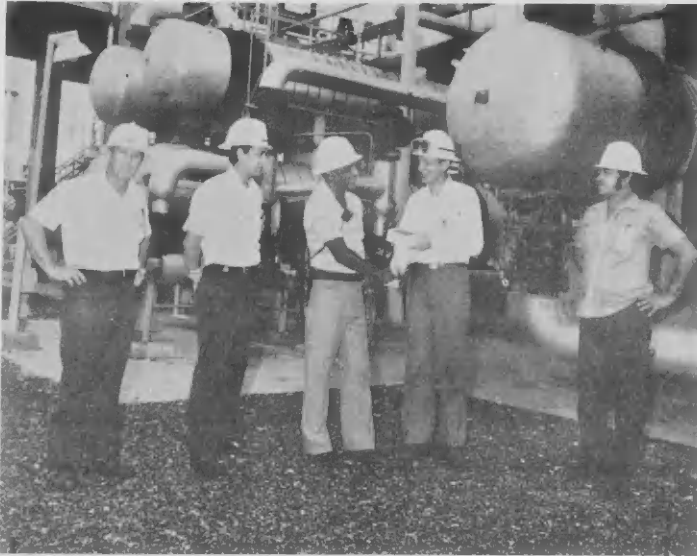
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Since his employment, Humphrey has followed Kepner-Tregoe, Corrosion, and Economic Investment & Analysis courses. He has also participated in a Project Management Seminar.

Humphrey spends his leisure time playing softball, enjoying scuba-di-

ving, and listening to stereo music. He is currently designing his future home.

Humphrey and his wife Aura presently live at Cura Cabai. They are looking forward to the birth of their first child in August.



Rene S. Lamp (l) of Process - H.D.S. is presented his 25-year service watch on the occasion of his anniversary on June 18.



Felipe Paula of Process - Utilities commemorated his 30th service anniversary on July 3. Here he receives his service emblem and certificate from Process Manager Øystein Dahle in the presence of his co-workers.



Jaime M. Emerencia of Mechanical - M&C - Non - Distr., receives his 30-year service emblem and award on the occasion of his anniversary on July 3.



Dominico Marquez (2nd l) of Process - Oil Movements, Planning & Control, is shown here following presentation of his 30-year service award on July 11.



Hyacintho Carolina of Mechanical - Metal Trades completed 25-years of Lago service on July 1. Here he is shown receiving his 25-year service watch from Div. Supt. L. S. F. Anjie.

## OBITUARY

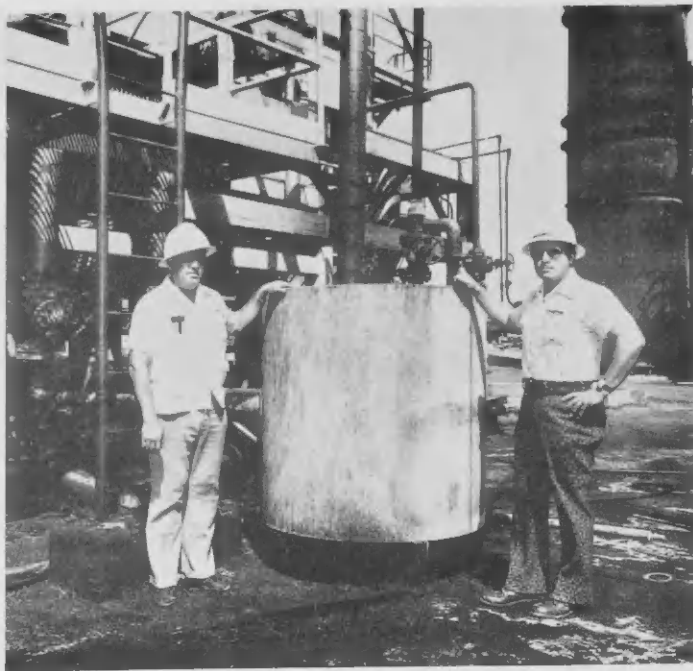
On June 28, 1977, Mrs. Carmelita de Kort, a Record Clerk in the Medical Department passed away at the Dr. Horacio Oduber Hospital. Mrs. de Kort had over 26 years of service with the Company. She is survived by her widower Edwin de Kort of Controller's - MCS and two sons.

## OBITUARIO

Dia 28 di Juni, 1977, Sra. Carmelita de Kort, un Record Clerk den Medical Department a fayece na Hospital Dr. Horacio Oduber. Sra. de Kort tabatin mas cu 26 anja di servicio cu Compania. Su sobrevivientenan ta su viudo Edwin de Kort di Controller's - MCS y dos yiu homber.

Emiliano Trimon is shown here with the drum he designed with the assistance of Leonard Peterson (r). The coke knockout drum has considerably reduced an environmental problem during decoking.

Emiliano Trimon (r) will be shown here with the drum he designed with the assistance of Leonard Peterson (dr). The coke knockout drum will reduce considerably an environmental problem during decoking of "coke".



## Coke Knockout Drum Prevents Gas Release Abates Noise, Increases Productivity in Decoking

A typical environmental problem caused by furnace decoking has been greatly reduced thanks to the innovation of Emiliano Trimon of the Combustion Team in Technical - Process Technical Services.

With the technical assistance of Leonard A. Peterson of the Environmental Control and Energy Conservation Group, Emiliano designed a portable coke knockout drum which prevents the release of harmful gases, dust and fumes into the atmosphere and effectively reduces noise levels during decoking operations in Process - Fuels. Decoking is the removal of carbon deposits in furnace tubes by forceful injection of heat, air and steam. The drum, which is easily hooked up to the furnace decoking outlet passes, was constructed in the Mechanical Shops and can easily be transported with a regular forklift truck wherever needed.

Previously, the furnace blowdown lines were closed to about 60% to reduce noise during the average 48-hour decoking period.

The drum permits these lines to remain completely open, decreasing unit downtime by approximately 12 hours. At the same time, energy is saved because less steam and heat are required to do the job.

The coke knockout drum now absorbs the gases, fumes and dust and carries out this waste to the sewage system and at the same time, suppresses the noise by as much as

95%. The drum also makes it possible for Lago and contractor personnel to work in the area without interruptions and without having to wear elaborate protective equipment during the entire decoking period.

First used during decoking operations on No. 5 visbreaker furnace in March this year, the coke knockout drum was an immediate success. Its effectiveness was further corroborated by our Industrial Hygienist following testing and measurements of gas and noise levels. Since then the drum has been used successfully on No. 6, 7 and 8 visbreaker furnaces. Another drum is being constructed for the HDS area. The use of the drum for all decoking operations has

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## Coke Knockout Drum Ta Preveni Salida di Gas; Ta Reduci Boroto, Ta Aumenta Productividad

Un problema ambiental típico cual tabata causá door di sacamento di coke for di furnunan a ser hopi reducí danki na e invento di Emiliano Trimon di e Combustion Team den Technical - Process Technical Services. Cu e yudanza técnico di Leonard A. Peterson di Environmental Control and Energy Conservation Group, Emiliano a disenja un coke knockout drum portatil cual ta preveni e escape di gasnan, polvo y huma cu por haci danjo den e atmofe-

## Humphrey Theysen Avanza Pa Senior Engineer den Technical-Econ. & Planning

Entrante 1 di Juli, 1977, Humphrey R. Theysen a ser promoví pa Senior Engineer den Technical - Economics & Planning Division.

Humphrey a join Lago na Juni 1972 despues di haya su grado di bachiller den ingeniería mecánica for di Universidad di South Carolina. E tempo ey el a ser asigná na Mechanical Engineering Division como un ingeniero den Engineering Technical Services Section. Durante ultimo parti di 1974 el a bai California pa studia pa su grado di maestro den ingeniería mecánica na Universidad di Stanford.

Tempo cu Humphrey a bolbe na 1975, el a ser asigná na Cost & Project Engineering Section di Technical Project Development Division. El a transferi pa Economics & Planning Division na Januari e anja aki.

Un anterior estudiante di St. Augustinus College na San Nicolas, Humphrey a gradua di Colegio Arubano cu un diploma HBS-B na 1968, y a gana un beca di Lago pa studia ingeniería mecánica. Despues di traha na Lago durante dos anja, el a recibí un otro beca, e biaha aki pa haya su grado di maestro.

For di tempo cu el a ser emplea, Humphrey a sigi cursonan Kepner-Tregoe, Corrosion y Inversion y Análisis Económico. Tambe el a participa den un Project Management Seminar.

Humphrey ta pasa su oranan liber hungando softball, gozando di scuba-diving y scuchando musica stereo. Actualmente el ta disenjando su futuro cas.

Humphrey y su casá Aura actualmente ta biba na Cura Cabai. Nan ta sperando nacemento di nan promer yiu na Augustus.

ra y eficazmente ta reduci nivelnan di boroto durante operacionnan di sacamento di coke den Process - Fuels. E trabao aki ta consisti di sacamento di restonan di carbon for di den tubería di fornu door di supla nan cu forza cu calor, aire y stoom. E drum, cual por ser instalá facilmente na e fornu su linjanan di salida pa coke, a ser construí den Mechanical Shops y por ser transportá facilmente cu un forklift truck

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Edgar Diaz and Phillip de Souza proudly display the certificate they received for completing a Fundamentals of Welding Engineering Course at the Ohio State University



Edgar Diaz y Phillip de Souza cu orguyo ta muestra nan certificado cu nan a haya pasobra nan a completa un curso "Fundamentals of Welding Engineering" na Ohio State University.



## Edgar Diaz y Philip de Souza Ta Completa Curso Ingenieria di Welding na Ohio State University

For di 13 te cu 24 di Juni, Edgar Diaz y Philip de Souza di Mechanical Department a atende un curso "Fundamentals of Welding Engineering" na Ohio State University. Participando tambe den e curso tabata trinta y ocho representantes for di varios industria na Merca.

E curso cual a ser duná door di profesornan di e facultad di Ohio State University, a cubri e conceptonan básico di metalurgía, disenjo di proceso den weldmento, tecnicanan nobo di welding, tratamiento cu calor, control di proceso den weldmento y inspeccion sin destruccion di material relacioná cu staal di carbon, staal cu poco of hopi mezcla di metal, mezclanan cu aluminio y mezclanan cu nikel. E curso a consisti mas tanto di lecturanan y algun sesion den Laboratorio.

Edgar y Philip, kendenan a regresa cu nan certificado cual a ser presentá na nan na e Universidad, ta mashá impresioná cu e manera eficiente y bon organizá cu e curso a

### Coke Knockout Drum

(Continued from page 5)

now become standard practice at Lago.

Through his alertness and good thinking, Emiliano has contributed significantly toward the control of air and noise pollution, to safety, conservation of energy and increased manpower utilization.

His idea represents another example of the contributions employees are making to improve our operations.

ser presentá door di e instructornan. Edgar y Philip ambos ta di acuerdo cu e curso, cual a sinja metodonan y equipo avanzá y mas reciente requerimentonan di disenjo di ingeniería a contribui considerablemente na nan conocemento di tecnicanan di metalurgía y weldmento.

Ambos ta trahando como Mechanical Supervisor ariba trabaonan special di welding cual ta ser haci den refinería door di empleadonan di Lago y di contratista.

### Process Design Course

(Continuá di pag. 2)

Participantenan di e anja aki ta: Victor A. Marval, Bernhard A. Kalis, Ruberd A. Barry, Moises F. Kusmus, Romulo Hernandez, Robert Arrendell y Donald R. Henriquez di Process Technical Services; Fouad Younan, Jose M. Laclé, Erik R. Bruyn y Trevor L. Connor di Mechanical Engineering, Edna L. Farro di Energy Conservation, Juan Noguera di Project Development Division y Russell H. Dowling di MCS Division.

### Do not miss LAGO'S T.V. PROGRAM

every Sunday  
from 9 — 10 p.m.  
on  
Tele-Aruba

## Victor Helder Promoted To Sr. Engineering Technician In Mechanical Engineering

Effective July 1, 1977, Victor (Vic) Helder of the Equipment Inspection Section of Technical - Mechanical Engineering Division was promoted to Senior Engineering Technician. This promotion is in recognition of his contributions in the equipment inspection field.

Vic joined Lago as an apprentice in the Lago Vocational School in 1944. Following graduation in 1948 he was assigned to Technical - Engineering as an Inspector Helper B. He advanced to Equipment Inspector Trainee A in 1953 and to Junior Engineering Assistant A in 1955.

A promotion in 1960 made him an Engineering Assistant A, and with another one in 1968, he advanced to Senior Engineering Assistant. In 1971, Vic was promoted to Engineering Technician.

During his thirty-three years of Lago service, Vic has followed many company-sponsored courses at Lago as well as overseas.

These courses include Process Training, selected units of the ICS Mechanical Engineering course, Elements of Metallurgy, an Ultrasonic (Non-Destructive Testing) and Weld Inspection Course in Connecticut, Isotope Training in Cleveland, Ohio and a Corrosion course in San Salvador. On his own time he completed an Advanced Television and Industrial Electronics course.

Vic dedicates most of his spare time to keeping his stamp and coin collection up to date, reading and swimming. He also enjoys experimenting with electronics.

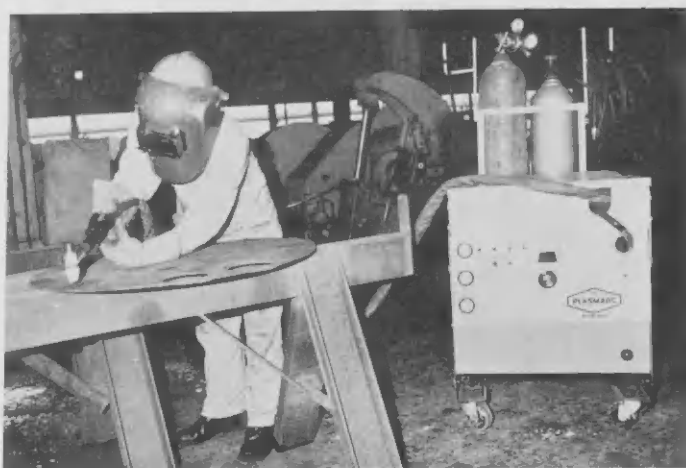
Vic and his wife Maria have three daughter - one of them is married - three sons and a grandchild. The Helder family, who lives in Tanki Leendert, is planning a trip to Mexico next year.

### Vic Helder Promoví

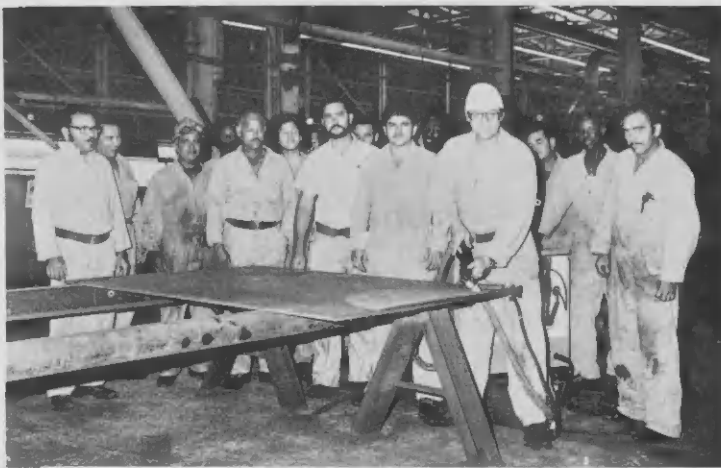
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stampia y moneda al dia, leza y landa. Tambe el ta gusta experimenta cu electrónica.

Vic y su casá Maria tin tres yiu muher, un di nan casá, tres yiu homber, y un nieto. Familia Helder, cu ta biba na Tanki Leendert, tin plan pa bai keiro na Mexico otro anja.



A welder here shows how he can cut out circles from a steel plate easily and effortlessly with the new Plasma-Arc cutting machine. At right, a group of welders and boilermakers are shown during a training session in the welding shops where demonstrations were given on the use of the equipment. In center, is Philip de Souza, instructor of the course.



Un welder aki ta muestra com e por corta cirkel for di un plaachi di staal facilmente y sin mucho esfuerzo cu e mashin di corta Plasma-Arc. Na banda drechi, un grupo di welder y boilermaker ta ser mostrá durante di un sesion di entrenamiento den welding shop caminda cu demostracionnan a ser duná tocante di uso di e equipo. Den center, ta Philip de Souza, instructor di e curso.

### Coke Knockout Drum

(Continuá di pag. 5)

regular na unda cu tin mester di dje.

Anteriormente, e linjanan di escape di e furnu tabata parcialmente será te na mas of menos 60% pa reduci boroto durante di mas of menos 48 hora den cual sacamento di coke tabata tuma lugar. E drum ta permiti pa e linjanan aki keda completamente habrí, reduciendo asina e tempo cu a planta mester ta for di servicio te na aproximadamente 12 hora. Na mesun tempo, energia ta ser gepsaar pasobra menos stoom y calor ta necesario pa haci e trabao.

E coke knockout drum awor ta absorbe e gasnan, humanan y polvo y ta hiba e desperdicio aki na un sistema di riolering y na mesun tempo, ta suprimí e boroto te na un nivel di g5%. E drum tambe ta haci posible pa personal di Lago y contratista traha den e area ey sin interrupcion y sin tin cu bisti un cantidad di equipo protectivo durante di henter e periodo di sacamento di coke.

Usá promer biaha durante operacionnan di sacamento di coke for di un furnu di No. 5 visbreaker na Maart e anja aki, e coke knockout drum a resulta un exito inmediato. Su efectividad ademas a ser confirmá door di nos Higienista Industrial despues di testamento y midimento di nivelnan di gas y boroto. For di e tempo ey e drum a ser usá cu exito ariba furnunan visbreaker 6, 7 y 8. Un otro drum actualmente ta ser construí pa distrito di HDS. E uso di e drum aki pa tur trabao di sacamento di coke awor a bira un practica establecí na Lago.

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## Plasma-Arc Cutting Method Allows Clean Cuts, Eliminates Time-Consuming Gouging, Grinding

A unique process currently employed at Lago is obtained with a Plasma-Arc Cutting machine in the Welding Shops. The modern equipment, developed initially for the U.S. space program and now widely used in industry, consists of a DC power source and an arc cutting torch, which uses CO<sub>2</sub>, nitrogen or hydrogen/nitrogen.

Unlike other welding equipment, cutting is not achieved by oxidizing (burning) metal, but by melting a localized area with a constricted arc and removing the molten metal with a high velocity jet of hot ionized gas issuing from the orifice of the torch. To achieve this, an extremely high temperature, high velocity constricted arc between an electrode (tungsten) in the Plasma-Arc cutting torch and the piece to be cut is created. This process can be used on all metals and alloys in much the same manner that oxygen (acetylene) cutting is used on mild steel.

Intended for special jobs, the Plasma-Arc equipment eliminates time-consuming gouging, grinding and shaping. The welder uses regular working protective equipment when operating the machine to cut steel in any shape or size, bevel plate edges, pierce holes, do stack cutting jobs and out-of-position cutting or areas difficult to reach on refinery heavy equipment or units.

To employ the machine and get the most of its time-saving features, several groups of boilermakers and

welders were trained on its application during March and April this year. Whole-day sessions were conducted by Philip de Souza, an engineering technician specialized in welding in Mechanical - Maintenance Zone, at the welding shops where the theoretical portion included stripping the equipment to acquaint employees with the inner mechanism.

The practical part served to give the trainees the opportunity to operate the machine in actual job requirements.

Some of the areas where the Plasma-Arc cutting machine has been used effectively in the welding shop, include the fabrication of a 48" dia. stainless steel expansion joint for the S.A.R. Plant, 16" dia. stainless steel strainers for the M1AR Plant, cutting of stainless steel flanges for V2AR ammonia injection nozzles and the removal of 1" dia. Incoloy-800 tubes for the H1AR Plant. On-the-spot cutting and beveling for welding a 12" dia. stainless steel pipe in place was accomplished at H1AR Plant.

This is an efficient piece of equipment which, besides saving time, also eliminates a previous housekeeping problem and since there is such a limited heat condition, it creates a cooler environment resulting in more comfort for the welder or boilermaker, with little or no distortion of the materials used.

## Ten-Week Course Teaches Engineers Techniques In Process Design Work

Fourteen Lago engineers, most of them fairly recent chemical engineers, are currently attending a Basic Process Design course every Thursday. The course, which is taught by Lee N. Stanley of Technical - Process Technical Services, began on June 23, 1977 and will continue every Thursday for ten consecutive weeks until August 25 in Classroom 2 of the Administration Building.

Sponsored by the Process Technical Services Division, the course was officially opened by Lago Vice President John R. Gibbs, who stressed the importance of this course in assisting Lago in becoming a more efficient and reliable company. Present at the opening session was Ray Farro, Division Superintendent of P.T.S.

The training program covers the basic techniques used in handling refinery process design work and unit monitoring.

Reference material used in the sessions include the Esso Blue Book, basically a refinery operations "bible", and the Esso Design Practices Manual. During the 8-hour sessions, the engineers receive lectures on process units and their functions, related equipment and instrumentation, and their safe and efficient operations, while at each session they are called upon to work out a problem on a particular area of unit operation.

Participants in the Basic Process Design Course are assigned homework. This involves mostly reading sections from the Blue Book and Design Practices Manual for review in the next sessions.

The course, which is conducted periodically for new engineers during a two-week period, has this time been given one day a week during ten consecutive weeks to afford these employees more time to carry out their regular duties more effectively.

This year's participants are: Victor A. Marval, Bernhard A. Kalis, Ruben A. Barry, Moises F. Kusmus, Romulo Hernandez, Robert Arrendell and Donald R. Henriquez of Process Technical Services; Fouad Younan, Jose M. Laclé, Erik R. Bruyn and Trevor L. Connor of Mechanical Engineering, Edna L. Farro of Energy Conservation, Juan Noguera of Project Development Division and Russell H. Dowling from the MCS Division.



The above employees have been selected to attend a fire training course at the Texas A&M Fire Training School at College Station from August 1 — 5. Most of them are members of the Volunteer Fire Brigade, while three are key Process personnel who play a significant role in refinery fire emergencies. They are shown here with Industrial Security Administrator Jim Brooke (standing, far right), and Fire Chief Jacinto Harms (foreground, far left), front row: Wim Diaz, Emilic F. de Cuba, Ireneo Winterdaal. Back row: Juan C. Hermans, Errol E. Brown, Ronald C. Tackling, Crismiliano Schwengle, and Benny Alders (see insert).



Silo Anthony (l), captain of the Mechanical Department team, winner of the 1977 Lago Interdepartmental Domino Tournament, accepts the championship trophy donated by Lago from Frits Maduro, Esso Club Director of Activities. In picture at right, Juan v/d Bleezen, captain of the Process team, receives the sub-championship trophy from Mateo Reyes, who organized the tournament. The tournament was held at the Esso Club on Sunday, July 24. Other participating teams were from Technical, Controller's and a combined team formed by representatives of Public Affairs, Employee Relations, Security and Marketing.

### Coke Knockout Drum

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Pa motibo di su atencion y bon pensamiento, Emiliano a contribui significativamente na e control di polucion di aire y boroto, na seguridad, conservacion di energia y na e aumento di utilizacion di trahador. Su idea ta representa un otro ehempel di e contribucionnan cu empleadonan ta haciendo pa mehora nos operacionnan.



Silo Anthony (r), captain di e team di Mechanical Department, aki ta acepta e trofeo di Lago pa campeonato di Torneo Interdepartamental di Domino for di Frits Maduro, director di actividadnan pa Esso Club. Na portret na drechi, captain di e team di Process Juan v/d Bleezen ta recibí e trofeo pa sub-campeonato di Mateo Reyes. E torneo a tene lugar na Esso Club 24 di Juli.